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13 July 1955

MEMORANDUM FOR: CHIEF/TES/PA/PHOTOGRAPHIC DIVISION

**SUBJECT: Request for Development of a Telescoping
48" Focal Length Lens**

1. A copy of the proposed specifications sent to [redacted] is attached. Certain of your requirements were omitted in this specification sheet, i.e., requirement for minimum weight and great strength and for 5/8" tripod sockets to be installed. These will be mentioned at the time of contacting [redacted] with regard to a contract.

2. The handling of this project is being expedited to achieve the earliest possible delivery.

[redacted]
AC/TES/APD

Attachment:
Specifications

Distribution:
Orig. & 1 - Addressee
1 - TES/SRB
1 - REL
2 - TES/APD ✓

REL/bb

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SPECIFICATION FOR TELEPHOTO LENS

It is desired to have a suitable long focus lens selected and a lens barrel designed and constructed to form a telephoto lens with the following properties:

1. A focal length of 48 inches.
2. An aperture of approximately $f - 8$. It has been suggested that a process lens might be used.
3. A collapsible barrel with a maximum collapsed length of 15 inches and a maximum diameter of 7 inches.
4. A system for tripod mounting using a single tripod and a two tripod support. (This would probably require three tripod sockets).
5. A camera mounting to permit attachment of the lens to a bayonet type Kxacta camera.
6. A focusing system permitting sharp images from 500 feet to infinity.
7. A lens shade to shield from extraneous light.

In addition to the above mandatory features, it would be desirable, depending on design consideration of size, weight, rigidity, complexity and cost, to include the following features:

1. A system of adaptation of the camera to various of the 35mm cameras and if possible to cameras of larger format.
2. A focusing system to closer than 500 feet.
3. A collapsible length of less than 15 inches, and a diameter of less than 7 inches.

It is desired to have a proposal submitted for the construction of three such telephoto lenses.

30 June 1955

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